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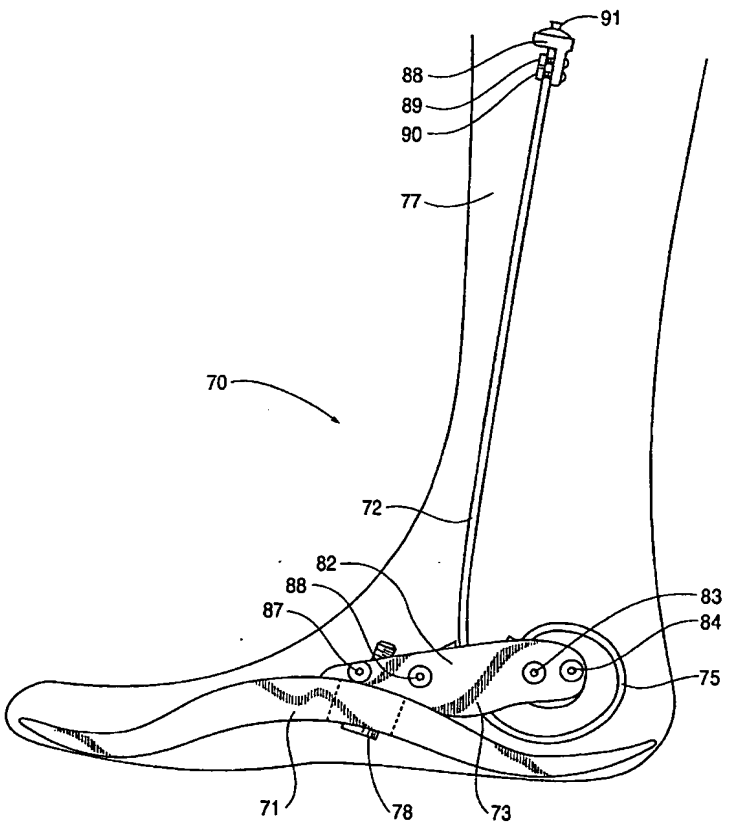
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(54) Title: PROSTHETIC FOOT WITH TUNABLE PERFORMANCE




(57) Abstract: A prosthetic foot (70) incorporates a foot keel (71) and a calf shank (72) connected to the foot keel to form an ankle joint area of the prosthetic foot. The foot keel has forefoot and hindfoot portions and an upwardly arched midfoot portion extending between the forefoot and midfoot portions. The calf shank includes a downward convexly curved lower end in the form of a spiral which is adjustably attached at a portion thereof to the foot keel by way of a coupling element. The calf shank extends upward anteriorly from the spiral to an upstanding upper end thereof. The coupling element includes a stop of a predetermined size to limit dorsiflexion of the calf shank in gait. The calf shank creates an integrated ankle and calf shank with the foot keel which has a variable radii response outcome similar to the disclosed parabola shaped calf shank while being readily covered by a cosmetic covering for the foot, ankle and lower leg.

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